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(71) Déposant *(pour tous les Etats désignés sauf US)*: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.R.S.) [FR/FR]; 3, rue Michel Ange, F–75794 Paris Cedex 16 (FR).

(72) Inventeurs; et

(75) Inventeurs/Déposants *(US seulement)*: SAÏED, Amena [FR/FR]; 3, rue Fagon, F–75013 Paris (FR). BERGER, Geneviève [FR/FR]; 11, rue Charpentier, F–92340 Bourg–la–Reine (FR). LAUGIER, Pascal [FR/FR]; 51, rue Rennequin, F–75017 Pris (FR).

(74) Mandataires: PEAUCELLE, Chantal etc.; Cabinet Armengaud Ainé, 3, avenue Bugeaud, F–75116 Paris (FR).

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(57) Abstract

The invention concerns a method for exploring and displaying tissues of human or animal origin which consists in: positioning an ultrasound probe (1) carried by a head steered by means of a three–dimensional positioning system (2), in particular computer–controlled, perpendicular to the tissue structure; controlling the probe such that it generates convergent high frequency ultrasound wave beams (of the order of *= 50 MHz), said waves being focused at a predetermined zone of the tissues, over a penetration distance ranging between 20 and 30 mm; scanning the tissue structure by the computer–controlled (3) positioning system (2), by carrying out parallel acquisition, by the computer (3) of signals reflected by the tissue structure; carrying out various signal processing operations on the data derived from scanning, to improve the reproduction of data and facilitate interpretation thereof by the practitioner.